## **Claims**

## 1. Compounds of the general formula I

wherein

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X represents -O-; -S-; -SO-; -SO<sub>2</sub>-;

W is a six-membered, non benzofused, phenyl or heteroaryl ring, substituted by V in meta or para position;

V represents a bond; -(CH<sub>2</sub>)<sub>r</sub>-; -A-(CH<sub>2</sub>)<sub>s</sub>-; -CH<sub>2</sub>-A-(CH<sub>2</sub>)<sub>t</sub>-; -(CH<sub>2</sub>)<sub>s</sub>-A-; -(CH<sub>2</sub>)<sub>2</sub>
A-(CH<sub>2</sub>)<sub>u</sub>-; -A-(CH<sub>2</sub>)<sub>v</sub>-B-; -CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-A-CH<sub>2</sub>-; -A-CH<sub>2</sub>-CH<sub>2</sub>-B-CH<sub>2</sub>-; -CH<sub>2</sub>
A-CH<sub>2</sub>-CH<sub>2</sub>-B-; -CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-A-CH<sub>2</sub>-CH<sub>2</sub>-; -CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-A-CH<sub>2</sub>-; -A
CH<sub>2</sub>-CH<sub>2</sub>-B-CH<sub>2</sub>-; -CH<sub>2</sub>-A-CH<sub>2</sub>-CH<sub>2</sub>-B-CH<sub>2</sub>-; -CH<sub>2</sub>-A-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-B-; 
CH<sub>2</sub>-CH<sub>2</sub>-A-CH<sub>2</sub>-CH<sub>2</sub>-B-; -O-CH<sub>2</sub>-CH(OCH<sub>3</sub>)-CH<sub>2</sub>-O-; -O-CH<sub>2</sub>-CH(CH<sub>3</sub>)-CH<sub>2</sub>
O-; -O-CH<sub>2</sub>-CH(CF<sub>3</sub>)-CH<sub>2</sub>-O-; -O-CH<sub>2</sub>-C(CH<sub>3</sub>)<sub>2</sub>-CH<sub>2</sub>-O-; -O-CH<sub>2</sub>-C(CH<sub>3</sub>)<sub>2</sub>-O-; 
O-C(CH<sub>3</sub>)<sub>2</sub>-CH<sub>2</sub>-O-; -O-CH<sub>2</sub>-CH(CH<sub>3</sub>)-O-; -O-CH(CH<sub>3</sub>)-CH<sub>2</sub>-O-; -O-CH<sub>2</sub>-C(CH<sub>2</sub>-CH<sub>2</sub>-O-; -O-CH<sub>2</sub>-CH<sub>2</sub>-C-; -O-CH<sub>2</sub>-CH<sub>2</sub>-C-; -O-CH<sub>2</sub>-CH<sub>2</sub>-O-; -O-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-O-; -O-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-O-; -O-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-O-; -O-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-O-; -O-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>

A and B independently represent -O-; -S-; -SO-; -SO<sub>2</sub>-;

U represents aryl; heteroaryl;

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T represents -CONR<sup>1</sup>-; -(CH<sub>2</sub>)<sub>p</sub>OCO-; -(CH<sub>2</sub>)<sub>p</sub>N(R<sup>1</sup>)CO-; -(CH<sub>2</sub>)<sub>p</sub>N(R<sup>1</sup>)SO<sub>2</sub>-; or -COO-;
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Q represents lower alkylene; lower alkenylene;

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M represents hydrogen; cycloalkyl; aryl; heterocyclyl; heteroaryl;

R<sup>1</sup> represents hydrogen; lower alkyl; lower alkenyl; lower alkinyl; cycloalkyl; aryl; cycloalkyl - lower alkyl;

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p is the integer 1, 2, 3 or 4;
r is the integer 3, 4, 5, or 6;
s is the integer 2, 3, 4, or 5;
t is the integer 1, 2, 3, or 4;
u is the integer 1, 2, or 3;
v is the integer 2, 3, or 4;
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and optically pure enantiomers, mixtures of enantiomers such as racemates, diastereomers, mixtures of diastereomeric racemates, mixtures of diastereomeric racemates, and the meso-form; as well as pharmaceutically acceptable salts, solvent complexes and morphological forms.

2. Compounds of general formula I according to claim 1 wherein X, W, V, and U are as defined in general formula I and

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T represents -CONR<sup>1</sup>-;

Q represents methylene;

M represents aryl, heteroaryl;

and optically pure enantiomers, mixtures of enantiomers such as racemates, diastereomers, mixtures of diastereomeric racemates, mixtures of

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diastereomeric racemates, and the meso-form; as well as pharmaceutically acceptable salts, solvent complexes and morphological forms.

3. Compounds of general formula I according to claim 1 wherein X, W, U, T, Q, and M are as defined in general formula I and

V represents -CH<sub>2</sub>CH<sub>2</sub>O-; -CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>O-; -OCH<sub>2</sub>CH<sub>2</sub>O-;

and optically pure enantiomers, mixtures of enantiomers such as racemates,

diastereomers, mixtures of diastereomeric racemates, mixtures of
diastereomeric racemates, and the meso-form; as well as pharmaceutically
acceptable salts, solvent complexes and morphological forms.

4. Compounds of general formula I according to claim 1 wherein X, V, U, T, Q, and M are as defined in general formula I and

W represents a 1,4-disubstituted phenyl group;

and optically pure enantiomers, mixtures of enantiomers such as racemates, diastereomers, mixtures of diastereomeric racemates, mixtures of diastereomeric racemates, and the meso-form; as well as pharmaceutically acceptable salts, solvent complexes and morphological forms.

5. Compounds of general formula I according to claim 1 wherein X, W, V, Q, T, and M are as defined in general formula I and

U is a mono-, di-, or trisubstituted phenyl or heteroaryl, whereby the substituents are halogen, lower alkyl, lower alkoxy, CF<sub>3</sub>

and optically pure enantiomers, mixtures of enantiomers such as racemates, diastereomers, mixtures of diastereomeric racemates, mixtures of

diastereomeric racemates, and the meso-form; as well as pharmaceutically acceptable salts, solvent complexes and morphological forms.

6. The compounds according to any one of claims 1 to 5 selected from the group consisting of

(rac.)-(1R\*, 5S\*)-7-{4-[3-(2-chloro-3,6-difluorophenoxy)propyl]phenyl}-3-oxa-9-azabicyclo[3.3.1]non-6-ene-6-carboxylic acid cyclopropyl-(3-methoxy-2-methylbenzyl)amide,

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(rac.)-(1R\*, 5S\*)-7- $\{4-[3-(2-chloro-3,6-difluorophenoxy)propyl]phenyl\}-3,3-dioxo-<math>3\lambda^6$ -thia-9-azabicyclo[3.3.1]non-6-ene-6-carboxylic acid cyclopropyl-(2,3-dichlorobenzyl)amide,

15 (rac.)-(1R\*, 3R\*, 5S\*)-7-{4-[3-(2-chloro-3,6-difluorophenoxy)propyl]phenyl}-3-oxo-3 $\lambda^4$ -thia-9-azabicyclo[3.3.1]non-6-ene-6-carboxylic acid cyclopropyl-(3-methoxy-2-methylbenzyl)amide,

(rac.)-(1R\*, 3R\*, 5S\*)-7-{4-[3-(2-chloro-3,6-difluorophenoxy)propyl]phenyl}-3 20 oxo-3λ<sup>4</sup>-thia-9-azabicyclo[3.3.1]non-6-ene-6-carboxylic acid cyclopropyl-(2-methoxy-3-methylpyridin-4-ylmethyl)amide,

(rac.)-(1R\*, 5S\*)-7- $\{4-[3-(2-chloro-3,6-difluorophenoxy)propyl]phenyl\}$ -3-oxa-9-azabicyclo[3.3.1]non-6-ene-6-carboxylic acid cyclopropyl-[2-(3-hydroxy-propoxy)-3-methylpyridin-4-ylmethyl]amide, and

(rac.)-(1R\*, 5S\*)-7- $\{4-[3-(2-chloro-3,6-difluorophenoxy)propyl]phenyl\}-3,3-dioxo-<math>3\lambda^6$ -thia-9-azabicyclo[3.3.1]non-6-ene-6-carboxylic acid cyclopropyl-[2-(3-hydroxypropoxy)-3-methylpyridin-4-ylmethyl]amide.

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7. Pharmaceutical compositions containing at least one compound of any ones of claims 1 to 6 and usual carrier materials and adjuvants for the treatment or

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prophylaxis of disorders which are associated with a dysregulation of the reninangiotensin system (RAS), comprising cardiovascular and renal diseases hypertension, congestive heart failure, pulmonary hypertension, cardiac insufficiency, renal insufficiency, renal or myocardial ischemia, atherosclerosis, renal failure, erectile dysfunction, glomerulonephritis, renal colic, glaucoma, diabetic complications, complications after vascular or cardiac surgery, restenosis, complications of treatment with immunosuppressive agents after organ transplantation, and other diseases known to be related to the RAS.

- 8. A method for the treatment or prophylaxis of diseases which are related to the RAS comprising hypertension, congestive heart failure, pulmonary hypertension, cardiac insufficiency, renal insufficiency, renal or myocardial ischemia, atherosclerosis, renal failure, erectile dysfunction, glomerulonephritis, renal colic, glaucoma, diabetic complications, complications after vascular or cardiac surgery, restenosis, complications of treatment with immunosuppressive agents after organ transplantation, and other diseases which are related to the RAS, which method comprises administering a compound according to any one of claims 1 to 6 to a human being or animal.
- 9. The use of compounds according to any one of claims 1 to 6 for the treatment or prophylaxis of diseases which are associated with the RAS comprising hypertension, congestive heart failure, pulmonary hypertension, cardiac insufficiency, renal insufficiency, renal or myocardial ischemia, atherosclerosis, renal failure, erectile dysfunction, glomerulonephritis, renal colic, glaucoma, diabetic complications, complications after vascular or cardiac surgery, restenosis, complications of treatment with immunosuppressive agents after organ transplantation, and other diseases known to be related to the RAS.
  - 10. The use of one or more compounds of any one of claims 1 to 6 in combination with other pharmacologically active compounds comprising ACE inhibitors, angiotensin II receptor antagonists, endothelin receptor antagonists, vasodilators, calcium antagonists, potassium activators, diuretics, sympatholitics,

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beta-adrenergic antagonists, alpha-adrenergic antagonists, and neutral endopeptidase inhibitors, for the treatment of disorders as set forth in any one of claims 7 to 10.